

# FOLIO

University of Alberta

20 March 1986

## Research Prize Lectures

### Fiction as Fun, and the Helpful Microbe

Research Prize Laureates Juliet McMaster and Donald Westlake will be honored on 26 March (8 p.m., SUB Theatre). Opening remarks will be supplied by J. Gordin Kaplan, and introduction of the laureates will be handled by Deans White and McDonald. Chancellor Peter Savaryn will present the award to Professor McMaster; Board of Governors Chairman John Schlosser will present the award to Professor Westlake.

In a talk called "Only a Novel!" Juliet McMaster will present a relaxed and irreverent reminiscence of a career spent in reading, teaching, researching and writing about fiction. William Peace Thackeray, Jane Austen, Anthony Trollope and Charles Dickens have been the literary loves of her life.

Says Dr. McMaster, Matthew Arnold presented his case for the study of literature (rather than of the natural sciences) as belonging in the centre of education, he took his stand on moral, aesthetic, and eventually hedonistic grounds. Great as the discoveries of science have been, science leaves us "still in the sphere of intellect and knowledge"; it is the study of literature that best enables us to relate our knowledge, our gathered data, to "the sense in us for conduct, and to the sense in us for beauty." Arnold saw science as the accumulation of facts, and literature as leading to the wisdom that enables us to endure the facts, even to rejoice in them. To reduce his complex argument to the simple maxim, "Science for business, literature for pleasure," would be to do scant justice to science, literature, or Arnold, who would no more have assented to the proposition that science is dull

to the accusation that literature is frivolous. But for the occasion of her current lecture, Dr. McMaster chooses to emphasize the aim of literature to please, and of



Juliet McMaster



Donald Westlake

fiction in particular to delight. The novel has historically announced itself as the literary medium most directly related to life, and it has also proved to be the most addictive of all the genres. Dr. McMaster will be announcing and dramatizing her own addiction to fiction.

Dr. Westlake's lecture, "Man Manipulates the Microbe", will trace man's utilization of microbes and their activities, from ancient societies to the beginnings of the biotechnological era. Initially, the activity of microbes was used without knowing what was responsible for the changes observed. The use of yeast in bread making and brewing is an example. However, it was discovered in the 19th century that microbes were responsible for the changes, and were also the causative agents of many diseases that plague mankind. But some microbes, it was also observed, produced compounds which could be useful to society, and it was quickly learned that controlling the environment in which such organisms were grown could increase the quantity of the compounds formed, and make the processes economical.

In the 1940s, penicillin antibiotics were initially produced by means of environmental control and the selection of naturally occurring high producing cultures to increase production. These

procedures were complemented by the use of physical and chemical mutagens to increase the production of high yielding mutants. The end result is that today's strains produce approximately 40,000 times as much penicillin as did the original culture.

Increased basic knowledge of how microbes grow made it possible to deregulate metabolic pathways, so that it was economical to produce certain amino acids from microbial growth. Glutamic acid (which in the form of monosodium glutamate (MSG) is a flavoring agent) and lysine (an amino acid which has to be added to most cereals to maximize their nutritive value) are produced from growing microbes.

Exploitation of basic knowledge of the function of DNA in controlling the production of enzymes, and thus microbial products, has led to the beginnings of the biotechnological era, Dr. Westlake explains. It is now possible to selectively increase the production of specific molecules by use of DNA recombinant technology and protoplast fusion techniques that specifically enhance the production of desired compounds. No longer are such changes sought in a random manner as was the case in enhancing the production of antibiotics. Now, changes can be brought about within the same species, or the manufacture of human hormones (such as insulin) can be induced in microbial species.

Controlling microbial activity through such technology will enable the microbe to play an even greater role in making life longer and more pleasant for mankind.

Myer Horowitz will close the formal portion of the evening. A reception will follow in the SUB Theatre lobby.

The fifth annual Research Prize Night is an open affair. □

## Solicitors Establish Scholarship in Law

The law firm of Parlee has established The Parlee Scholarship to be awarded annually to a student entering the third year of the Faculty of Law.

Selection will be on the basis of outstanding merit based on the student's performance in both the first and second year of law.

The value of the scholarship is \$1,000.

The scholarship is presented in recognition of the achievement of the Parlee family, most notably Mr. W.O. Parlee, Q.C., and the late Mr. Justice H.H. Parlee.

The Faculty of Law acknowledges with appreciation this generous donation from the Parlee firm. □

## Memorial Meeting for Donald Ross

A memorial meeting will be held for Donald Ross in Convocation Hall at 2 p.m., 29 March. A reception will follow in the adjoining lounge. □

## Holiday Schedule

The Easter holiday necessitates the setting of the following deadlines for the 3 April issue of *Folio*: 9 a.m. on Wednesday, 26 March, for articles and "Talks" listings; 3 p.m. the same day for classified and display advertisements. □

## Contents

- Open letter on CAUT referendum
- Good deals, possible steals at Materials Management auction
- Amdahl anniversary
- Instructor-Designed Questionnaire System



# An Open Letter on the CAUT Referendum

The recommendation of the AASUA Council that our association withdraw from membership in the Canadian Association of University Teachers (CAUT) warrants the most careful scrutiny and, in our view, rejection. Whether or not you agree with this view, we are confident you will agree that a referendum should only be held following a full airing of the issues by representatives on both sides of the question. A question of this importance should not be decided before the issues are openly discussed.

CAUT is an important nation-wide organization worthy of continued support. Academics at Canadian universities have come to depend upon CAUT as the voice and conscience of our profession and as a national lobby representing our interests in such matters as academic freedom, tenure, economic benefits, research funding, and established programs financing of Canadian universities.

An organized national lobby is especially important given Canada's political environment. While education is a matter of provincial jurisdiction, the federal government finances about half the costs of post-secondary education. The federal government is also the main source of funding for university-based research through the three federal granting councils. Finally, since national standards in such areas as funding and accessibility require interprovincial agreement, the federal government is crucial in mediating the varying interests and practices of the provinces. In all of these areas, CAUT has been, and will doubtless continue to play, an important part provided that it remains a strong and credible organization.

Passage of the AASUA referendum could cripple CAUT's effectiveness as a national organization. Even more of concern to us, withdrawal of AASUA from CAUT at a time when financial pressures are threatening Canadian universities could isolate this University's academic staff from the national academic community. A precipitous act that would weaken or even destroy CAUT would certainly not help the national reputation of the University of Alberta and its academic staff.

We observe that AASUA's case against CAUT is appealing in some respects. It is true, for example, that AASUA's well-developed capacity to provide local services means that local members pay for a certain measure of duplication in services. It is also true that, to some extent, AASUA members underwrite CAUT's efforts in collective bargaining. Finally, it is true that the governance of CAUT, in which unionized faculty associations play a major role, sometimes rubs a non-unionized association like AASUA, and some of our colleagues, the wrong way.

But let us not be fooled. CAUT's fee structure is such that members at the University of Alberta pay no more and no less than members elsewhere. In addition, while AASUA is not a unionized association certified under provincial labor legislation (an option disallowed under Alberta law), this does not mean that academics at this University miss out on benefits gained—through association in CAUT—by unionized faculty associations in other provinces. We might even rejoice in the fact that colleagues elsewhere also benefit from our own contractual successes at this University.

Let us not forget also that the national resources commanded by CAUT, assigned when needed to hot spots like British Columbia, are available to all CAUT members. CAUT's assistance in working toward resolution of the recent bitter disputes at the University of British Columbia is a case in point. Who is to say that Alberta will not be in need one day?

We regret that we feel obliged to add that AASUA's case against CAUT, as stated in the AASUA President's letter and material to members dated 28 February 1986, misleads in that the downside of pulling out of CAUT is not explored. For example, withdrawal from representation at the national level could not be fully compensated by local and regional activities, even if these activities were expanded. And the break in solidarity with faculty colleagues across Canada could encourage the erosion of tenure and collective bargaining rights for everyone; the national resources embodied by CAUT would not be available to AASUA members should severe local problems be encountered in the future.

We object as well to the question put in the referendum ballot. In its wisdom, AASUA Council settled on a simple yes/no choice, leaving no moderate middle-ground option. While AASUA has reviewed its relationship with CAUT on several occasions during recent years with varying results, suddenly this referendum appears with a short time line, with little opportunity for open debate which might influence the outcome of the referendum, and with no room for mediation between the yes/no extremes. This is not what many AASUA members have come to expect from our local association. Recall, for example, that when the recent

ratification ballot for amendments to the Faculty Agreement was circulated, members were asked to identify specific concerns, if any. The referendum to withdraw from CAUT offers no such invitation.

We therefore urge our colleagues to vote no on the question put in the referendum. This is not to say that we do not recognize any validity to the various complaints of inequity in the present CAUT structure and in its relations with AASUA. Valid though these complaints may be, AASUA members at least should have been given an opportunity to hear arguments on both sides of the question—including CAUT's responses to local concerns—prior to the issuing of a referendum ballot. Even now, good will and good sense on both sides could produce a satisfactory solution; the services of a mediator could be sought if necessary. Only if all efforts fail should AASUA consider withdrawal from CAUT, with all of its probable consequences to the academic profession in Canada.

Since this letter will not appear in *Folio* until 20 March, and since the ballots are due on 25 March, please act quickly to prevent this ill-considered and precipitous action. If you have already submitted your ballot but wish to give the matter second thought, we suggest that you write AASUA President Ian Campbell, 347 Athabasca Hall, indicating just that.

*Ron Bercov, Mathematics*

*AASUA President 1975-76, CAUT President 1978-79*

*Gordon Fearn, Sociology*

*AASUA President 1982-83, CAUT Board 1983-85*

*Gordin Kaplan, Vice-President (Research)*

*CAUT President 1970-71*

## FOLIO

### Deadlines:

**Notices of coming events:** 9 a.m. three weeks in advance of desired publication date.

**Classified advertisements:** 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission. **Display advertisements:** 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to select, edit and position submitted copy. Views expressed in *Folio* do not necessarily reflect University policy.

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## Amdahl Proves Worthy of Challenge

Ten years ago, a big news story on campus concerned the installation of the Amdahl V/6 computer. With a clutch of jobs severely taxing the IBM 360/67, the Amdahl, a high performance, general purpose computer reputed to run about 10 times faster than the 360/67, was looked on as a panacea by Computing Services. As Dale Bent put it, "the main immediate effect upon clients will be relief from the overloading and congestion characterizing our services over the past months."

After overcoming various technical difficulties in the 60-day acceptance period, including one on 28 November 1975 which bemoaned the fact that "470 could not communicate with 1403 because of 2914 problems", the Amdahl swung into action. It has not slowed down since. In January 1976, the number of runs was 38,638. In January 1986, the figure was 233,088. By this time, the 5860 had been upgraded to a 5870 (two central processing units instead of one) but there's no denying that the computer is a bear for work.

This flexing of muscles has not, of course, escaped the attention of Amdahl Canada Ltd. The firm recently hosted a reception at the Faculty Club at which David McGlaughlin, President of Amdahl, acknowledged that the 1975 installation put the firm on the map in Canada. (At the time, the only other institutions to have had Amdahl computers installed were

the Institute for Space Studies at Columbia University, the University of Michigan, Texas A&M, and the Singer Corporation.) Mr. McGlaughlin then presented Myer Horowitz with an endowment cheque for \$25,000, such monies to be used for scholarships for excellence in third-year Computing Science. The department is hopeful that the amount will be matched by the provincial government, "bringing the total endowment to that required to award five

scholarships of \$1,000 on an annual basis, beginning in Spring 1987."

The scholarships, known as the Amdahl Academic Achievement Scholarships in Computing Science, will be awarded in the specialization streams of Software Design, Business Applications, Computer Design, and Scientific Computing Design as well as in Computing Science Honors.

Application is by nomination from the Department of Computing Science. □

## 'Going, Going, Gone'

"I hereby declare /Je, soussigné, déclare . . ." Each spring, it's the custom of the Materials Management Department to hold a rather large auction. This year's extravaganza is scheduled for 26 April and declarations of surplus equipment and furnishings top the department's most wanted list.

All items to go under the gavel have to be tagged and assigned a lot number two to three weeks in advance of the auction and so Bonnie O'Dwyer, Assistant to Director Roy Bennett, and Jody Brookwell, Surplus Equipment Coordinator, suggest that people "clean house" at their convenience but that they try to give Materials Management some lead time. The department disposes of surplus equipment to the tune of \$500,000 a year so eyebrows aren't raised when O'Dwyer says "we're prepared to sell anything the campus can throw at us." So far, the list of items to be auctioned doesn't include anything out of the ordinary (in past years, donkeys and diving boards have found new homes) but who knows what might be declared between now and the cut-off date of 1 April. (For those who miss the deadline, another auction will probably be

held in June.)

On 26 April, bids will be taken on such items as microscopes, calculators, camera equipment, cafeteria tables from CAB, a cash register, IBM selectric typewriters, No Parking signs, a word processing system, freezers, even two mail vans and a gravel truck.

Surplus equipment is picked up every Thursday. Another piece of good news is that there's a minimum of paperwork involved. A solid indication of what is to be picked up is appreciated. Brookwell was once asked to pick up a rotary file and, assuming that the item was a desk top card file, she pulled up in a station wagon. What she found was a 250-pound electric rotary file.

Previewing will be from 4 to 8 p.m. on 25 April and the auction itself will be held at the University-leased warehouse at 14640 115 Avenue. Auctioneer Wes Spencer will start with lot 1 at 10 a.m. and it's estimated that the proceedings will end at 5 p.m.

Buyers of large items can back up to the loading dock; for those who have rented a truck to pick up, say, a desk, the warehouse will be open on Monday, 28 April. □

## Papers of Johns, Wyman Among Archives' Acquisitions

University Archives' new acquisitions (January, February 1986) may well be of interest to researchers.

The collections are these: Education Society of Edmonton: Minutes, correspondence. Phyllis Young: Photographs of student life, 1922-1932.

Doris A. Laverty: Photograph album and notebooks of C.A. Laverty, Mackenzie River Valley field trips,

1923-1925.

Mrs. Anna Champion: Recorded memoirs of L.R. Champion and development of the oil sands at Fort McMurray.

The National Archives Appraisal Board reviewed the papers of Walter Johns, Max Wyman, Travis Manning and Des Crossley in January. These collections are available to the researchers, with permission of the donors. □

## The Next Decade and Beyond: A Plan for the Future

If you have not yet received a copy of this major discussion paper, please telephone or write to the **Office of Public Affairs**, 423 Athabasca Hall, Edmonton, Alberta T6G 2E8 (tel. 432-2325)

Members of the public and the University community are urged to become involved in the discussions that will take place about University priorities. In May, there will be public forums in major centres across Alberta. On-campus councils will shortly review the document and its recommendations in close detail.

## Wilhelm Brauner: Distinguished Visitor, University of Vienna

The Faculty of Law, the University Library, and the Department of Political Science are hosting the visit to this University in the last week of March of Wilhelm Brauner, Professor of Law at the University of Vienna.

Dr. Brauner will be delivering a lecture to the Faculty of Law titled "From Constitutional Monarchies to Parliamentary Governments in Central Europe" (25 March, 2 p.m.); he will also be assessing the Library's materials in Austrian history and in particular, in connection with his research in progress on the history of the *Juridisch-Politische Leseverein* (Juridical-Political Reading Club) of Vienna, will be examining that body's library, which was acquired by the University Library some years ago.

Any questions may be addressed to J.K. Wikeley (Humanities and Social Sciences Library, 432-5972), who is coordinating Dr. Brauner's visit. □



The Amdahl birthday cake was overmatched when it went one on one with Dale Bent. Photo: Wayne Karpoff.

## Board of Governors

The Board of Governors held its regular monthly meeting on Friday, 7 March. It was stated that the Building Committee has considered proposals for "decanting" the Arts Building while renovations take place later this year. While final details are still to be worked out, the proposals call for the use of a trailer complex and space in Lister Hall—more on this later.

The Board heard a presentation by Erich Vogt, a representative of the Tri-Universities Meson Facility in British Columbia—our University is a partner in TRIUMF—and observed a demonstration of the new telephone registration system.

The Board Educational Affairs Committee drew attention to the appointments of four department chairmen. C.R. Hinings will head the Department of Organizational Analysis, Faculty of Business, as of 1 July. His four-year term will be interrupted during the 1986-87 academic year when he will take a leave as a McCalla Professor. Dr. Hinings is a graduate of the

University of Leeds. His first appointment at the University of Alberta was in 1982.

E.C. Lechelt assumed the chairmanship of the Department of Psychology on 1 January. His term extends to 30 June 1991. Dr. Lechelt earned three degrees—BSc, MSc, PhD—at our University and began his teaching career here in 1972. He had been Acting Chairman of Psychology since July 1985.

On 1 July, D.L.J. Tyrrell will begin his five-year term as Chairman of the Department of Medical Microbiology and Infectious Diseases. Dr. Tyrrell was born and raised in Edmonton and obtained his undergraduate science degree (Chemistry) and medical degree from the University of Alberta. He subsequently received his PhD (Pharmacology) from Queen's University and his specialty qualification in Internal Medicine from the Royal College of Physicians and Surgeons of Canada. His research interests are in the area of viruses affecting the nervous system (neurovirology).

Linda Woodbridge, reported EAC Chairman Janet Bentley, will lead the Department of English for five years, effective 1 July. A graduate of the University of California, Los Angeles, she has been on campus since 1970. She was Associate Chairman of the department for one year commencing 1 January 1983.

The price of textbooks in the Bookstore has been on Jim Shinkaruk's mind for some time. The Students' Union representative on the Board reported earlier that he had received "a fair number of complaints" and said he knew that many students were photocopying texts. Vice-President (Administration) Warrack, who looked into the matter, issued a report which explained that the textbook dollar is broken down into editorial costs, which include the soliciting of the original manuscript, and sessions with the author to bring the book to a pre-publication level. This accounts for about seven percent of the final selling price. Twenty-five percent of the selling price will be associated with the actual manufacture of the book and its associated aids, e.g., film, videotape, transparencies, software, test banks, instructor's manuals, workbooks and answer books. These aids, Dr. Warrack explained, have added an

estimated 50 percent to textbook prices between 1979 and 1985. To be competitive, a publisher must include them in his repertoire.

Author's royalties will vary but an industry figure of 12 percent is one most commonly quoted. Dr. Warrack discovered.

The marketing of a textbook, including field staff support, advertising and general promotional support, and the circulation of complimentary copies adds another 11 percent. Fixed overhead is 11 percent. The publisher's gross profit of 13 percent is split between seven percent for taxes and six percent retained earnings.

The Bookstore's share, Dr. Warrack reasoned, is 20 percent of the suggested list price.

When it comes to pricing imported textbooks, the Canadian publisher has, on the average, been using a conversion rate of 38 percent on the U.S. list price to create a Canadian suggested list price. The Bookstore is then charged 80 percent of this price.

Book prices are set according to such factors as the length and size of the book, whether it is hard cover or paperback, the inclusion of illustrations, the use of color, the grade of stock and the projected life of the title. □



### General Faculties Council

GFC's next meeting is scheduled for **Monday, 24 March, at 2 p.m.** in the University Hall Council Chamber.

1. Approval of the Agenda
2. Approval of the Minutes of 24 February 1986
3. Question Period
4. New Members of GFC 1986-87
5. Executive Committee Reports
- 5.1 Executive Committee Minutes of 17 February 1986
- 5.2 Executive Committee Minutes of 10 March 1986
- 5.3 Executive Committee Minutes of 17 March 1986
6. Report of the Board of Governors
7. Report of the Nominating Committee
8. Code of Student Behavior: Specific Faculty Offenses
9. University Participation in Joint Ventures with Industry; Research Consulting by University Staff; Conflict of Interest: University of Alberta Draft Policy
10. Quotas: Quinquennial Review of

Quotas by the Academic Development Committee (ADC)

11. Academic Development Committee (ADC): Annual Report 1985
12. Planning and Priorities Committee (PPC): Annual Report 1985
13. Other Business

For information concerning this agenda, members of the University community may telephone the Secretary to GFC, 432-5430.

### 'The Argue Collection'

On 20 March at 3:30 p.m., the Department of Educational Foundations will officially acknowledge the acquisition of "The Argue Collection."

To mark the occasion, a brief program will be held at the departmental Sandcock Library, 5-102 Education North.

The collection, basically consisting of philosophy and educational philosophy books, was donated to the department by Professor Argue, a former member of the Faculty of Education.

### 'West Coast Safari'

The Faculty of Extension's "West Coast Safari to the Queen Charlotte Islands" (29 August to 7 September) has been filled. However, another safari has been scheduled. The dates are 19 to 29 May. Carola Daiber, 432-3033, has full details.

Another tour sponsored by Extension is "The Great Barrier Reef." The time frame is 12 to 29 July. Once again, the contact person is Carola Daiber.

### Bookstore Inventory

The Bookstore will be closed for inventory 20, 21 and 22 March. It will reopen Monday, 24 March.

## Academic Staff Representative on the Board of Governors

The term of office of one of the two academic staff representatives on the Board of Governors, Dean W.J. McDonald, will expire on 14 July 1986. The other representative is Dean White (Arts).

Nomination and election procedures for filling this vacancy were recently amended by General Faculties Council and are available in the University Secretariat, 2-5 University Hall. The new regulations provide that one of the two academic staff positions on the Board must be filled by a full-time member of the teaching faculty who does *not* hold one of the following administrative positions: Vice-President, Assistant or Associate Vice-President, Dean, Associate or Assistant Dean, or Department Chairman. Because the second of the two Board positions is currently held by a Dean, only full-time members of the teaching faculty who do not hold one of the administrative positions cited above are eligible to be nominated for the Board position which becomes vacant in July.

Nominations of full-time faculty members who do not hold one of the administrative positions described above and whose candidacy is supported by the signatures of five other full-time academic staff will be accepted by the Secretary to General Faculties Council, 2-5 University Hall, until **Friday, 18 April, 1986, 4:30 p.m.** Those submitting nominations are asked to ensure that each nominee agrees to the nomination. A brief *vitae* of the candidate should accompany the letter of nomination. For further information, telephone Ellen Solomon at local 5430.

# Instructor-Designed Questionnaire System Update

The Instructor-Designed Questionnaire (IDQ) system, which has been used for several years by the University of Michigan, was first used on a large-scale basis at the University of Alberta during the fall of 1985.

The IDQ system was scrutinized by CITL and adapted by the Department of Computing Services for use at this University, says Bente Roed Cochran, Coordinator for the Committee for the Improvement of Teaching and Learning (CITL). During the fall term, 42 distinct questionnaires were generated for 22 different departments on campus using the IDQ system. Course evaluation data were collected from 10,467 students in 303 classes via these questionnaires. The system allows for the inclusion of items relevant to each individual instructor, to the University, the Faculty, and the department, and provides for normative as well as individualized feedback on the quality of instruction.

The basic idea of the IDQ system is simple: a catalogue of about 200 items is available from the office of your chairman from which an instructor may construct a 43-item rating form. Each item in the CITL catalogue is a statement about the results of teaching, about a teacher, or about some aspect of a course.

An instructor may also write his or her own unique questions. For each

statement the student indicates degree of endorsement, from "strongly agree" to "strongly disagree." After the instructor has selected the items, individually designed questionnaires are computer printed, provided for the instructor's class, and completed by the students.

Student responses are then read, tabulated, and printed by computer. A one-page report with comparative median ratings is generated for each class that has been evaluated.

CITL believes that feedback on teaching is essential to assist instructors in their attempt to improve their teaching, and the committee encourages professors to continue to explore the advantages of the above method of evaluation which is described in the document, "Student Evaluation of Courses and Instruction Using the Instructor-Designed Questionnaire (IDQ) System." This document is available in the office of each department/Faculty on campus.

As it is recommended that course evaluations be conducted well before the last week of classes, it is suggested that staff request the number of forms needed as soon as possible. The procedure for obtaining the forms is described in the above document.

Feedback from staff concerning this new approach to questionnaire generation was generally positive.

The main problem observed from the point of view of Computing Services concerned the failure to adequately communicate the definition of a class that is assumed by the IDQ system—the system assumes that questionnaires are being generated for a specific instructor in a specific class in the current term. Those wishing to deviate from this assumption should contact Dan Precht, Computing Services, 432-2261, to ensure that their intended usage can be efficiently accommodated by the IDQ system.

Due to time constraints, no modifications will be made to the system for this term except that normative data will be added to that collected during the first term. This means that comparative data presented in the reports for each question will include results obtained from the first term as well as data collected in the second term available at the time the report is produced. □

## Talks

### English

20 March, 3:30 p.m. Gayatri Chakravorty Spivak, Cornell University, "Scripts of Feminism in a Divided World." 6-40 Humanities Centre.

21 March, 3 p.m. Dr. Spivak, "What in Marx is Useful for This Project?" 6-40 Humanities Centre.

24 March, 4 p.m. Dr. Spivak, "Varieties of Feminist Intervention." 5-20 Humanities Centre.

25 March, 3:30 p.m. Dr. Spivak, "What in Deconstruction is Useful for This Project?" 5-20 Humanities Centre.

27 March, 3:30 p.m. Dr. Spivak, "Readings and Conclusions." 6-40 Humanities Centre.

31 March, 4 p.m. Jon Whyte, curator at the Whyte Museum, Banff, "The Discourse of Museums: A Postmodern Motif." 5-20 Humanities Centre.

1 April, 3:30 p.m. A poetry reading by Jon Whyte. L-3 Humanities Centre.

### Physics

20 March, 3:30 p.m. R.M. Woloshyn, TRIUMF, "Hadron Structure from Lattice Quantum Chromodynamics." 631 Physics Building.

### Food Science

21 March, 11 a.m. Richard Dainty, Meats Research Institute, Bristol, "Microbiology and Biochemistry Research at the Meats Research Institute—Bristol." E-340 Chemical-Mineral Engineering Building.  
24 March, 4 p.m. Richard Dainty, "Storage Life and Spoilage of Meats." (Nature of Biochemical End Products and the Role of Microorganisms in Producing Them.) E-340 Chemical-Mineral Engineering Building.

## Medicine

21 March, noon. Frieda Feldman, Radiology Department, Columbia Presbyterian Medical Center, New York, "Endocrines and Bone." Classroom D, Mackenzie Health Sciences Centre.  
22 March, 8 a.m. M. Chetner and W. Lakey, "New Developments in Tumor Immunology." 5H202 Mackenzie Health Sciences Centre.

## Art and Design

21 March, 2:30 p.m. David Solkin, Art Historian, "The Art of Sympathy and the Creation of a Public in 1760s England." L-1 Humanities Centre.

## Zoology

21 March, 3:30 p.m. Raymond T. Damian, Department of Zoology, University of Georgia, "Parasite Evasion of the Host Immune Response." M-149 Biological Sciences Centre.

## Canadian Institute of Ukrainian Studies

24 March, noon. Virko Baley, Department of Music, University of Nevada, "Modernism in the Musical Life of Soviet Ukraine: The Socio-Political Heritage of the 1960s." Heritage Lounge, Athabasca Hall.

25 March, 8 p.m. Shevchenko Lecture—Virko Baley, Department of Music, University of Nevada, "Contemporary Music in Soviet Ukraine." Lecture Theatre 12, Tory Building.

## Linguistics

24 March, 2 p.m. Dilworth Parkinson, Brigham Young University, "Having Your Cake and Eating It Too: VSO to SVO in Modern Standard Arabic." 4-70 Assiniboia Hall.

## Plant Science

24 March, 1 p.m. A.L.N. Rao, "Dianthovirus: A New Group of Plant Viruses with Bipartite Genome." 1-06 Agriculture-Forestry Centre.

26 March, 1 p.m. Albert Calman, "Peach Tree Short Life." 1-06 Agriculture-Forestry Centre.

## Slavic and East European Studies

24 March, 3 p.m. Gust Olson, "Novel With Cocaine." 776 General Services Building.

## Alberta Heritage Foundation for Medical Research

24 March, 4 p.m. Ephraim Yavin, Professor of Neurobiology, Weizman Institute of Science, Rehovot, Israel, "Molecular Interactions of Tetanus Neurotoxin With Natural and Artificial Membranes." 2-27 Medical Sciences Building.

25 March, 4 p.m. Andrzej Stasiak, Professor, Eidgenössische Technische Hochschule, Zurich, Switzerland, "Visualization of RecA Protein/DNA Interactions in Studies on Recombination." 2-27 Medical Sciences Building.

## Comparative Literature and Germanic Languages

24 March, 8 p.m. Gerald Gillespie, Stanford University, "Romantic Devils." Senate Chamber, Arts Building.

## Talks on Laser Fusion, X-ray Microscopy on Electrical Engineering's Schedule

A.A. Offenberger of the Department of Electrical Engineering has advised *Folio* of the appearance of two visiting speakers—M.C. Richardson, University of Rochester, and D. Attwood, University of California.

Dr. Richardson is a senior scientist with responsibility for the laser fusion research program at the Laboratory for Laser Energetics, University of Rochester. This laboratory has one of the largest laser systems in the world for pursuing laser fusion research, X-ray generation, and production of very high temperature and pressure conditions in matter. The facility supports a large research group, including users from other universities and research institutions.

His lecture—"High Yield and High Density Ablatively Driven

Fusion Experiments"—will be delivered 27 March at 3 p.m. (V102).

Dr. Atwood is Director of the Center for X-ray Optics, Lawrence Berkeley Laboratory. He will lecture (4 April, 3 p.m., V103), on "Soft X-ray Microscopy and Coherent Radiation - Applications to Science and Technology."

A national X-ray center has been established at Berkeley, California, to pursue the development and application of low energy X-ray physics and technology. The objectives of the center include the generation of very high brightness, tunable X-ray sources, development of sophisticated X-ray optics and microscopes, and application of techniques and instrumentation to disciplines such as physics, chemistry, biology and engineering. □



## CITL

25 March, 2 p.m. Bill Meilen, "Communication Tricks—Fast Ways to Improve Your Communication Ability." TB-W2 Tory Building.  
26 March, 3 p.m. Darlene Davidson and Murray Hawkins, "Projects and Presentations: Student Participation in the Learning Process." 2-33 Humanities Centre.  
27 March, 2 p.m. Karel Puffer, "Development of Course Outlines." TB-W2 Tory Building.  
2 April, 1 p.m. John Carpenter, University of Manchester, "Is the Blackboard Obsolete?" TB-W2 Tory Building.  
3 April, 3 p.m. Art Deane, "Relating Textbook Readings to Lectures." TB-W2 Tory Building.

## Jewish Christian Dialogue Group

25 March, 4:30 p.m. Rev. Tim Scott, will speak on "Thomas Merton." St. Joseph's College Lounge.

## Comparative Literature, English and Faculty of Arts

25 March, 7 p.m. Frederick Garber, State University of New York, "Irony and Organicism: Figures of Relation in Romantic Literature." Senate Chamber, Arts Building.

## Forest Science

26 March, noon. Carlos Llerena, "Field Evaluation of an Erosion Hazard Assessment System in West Central Alberta." 4-1 Mechanical Engineering Building.  
26 March, 4 p.m. Stephen Hobbs, Oregon State University, "Combining Research and Education Programs for Effective Technology Transfer: A Case Study from Forestry." E-343 Chemical-Mineral Engineering Building.

## Boreal Institute for Northern Studies

26 March, noon. David Young, "A Contribution of Cree Traditional Medicine to Modern Health Care." TB 1-25 Tory Building.  
1 April, noon. Barbara Schweger, "Threads to the Past: Current Research on Archaeological Textiles of the North." TB 1-25 Tory Building.

## Universe and Man Speaker Series

26 March, noon. Andy Spencer, "Jellyfish Brain." V-Wing 102 Physics Building.  
2 April, noon. Douglas Sheppard. Title to be announced. V-Wing 102 Physics Building.  
9 April, noon. Loren Hepler, "Oil (Tar) Sands: Why we should work them now." V-Wing 102 Physics Building.  
Series sponsored by the Undergraduate Science Society.

## Comparative Literature

26 March, 4 p.m. Gerald Prince, University of Pennsylvania, "Theming." Senate Chamber, Arts Building.  
28 March, 3 p.m. E.D. Blodgett, "Originary Grammarians: Laure Conan and Sheila Watson." Senate Chamber, Arts Building.

## Botany

26 March, 4 p.m. John Caesar, "The Influence of the Zeta Ratio of Light on

Growth, Photosynthesis and Cold Hardiness of Lodgepole Pine and White Spruce Seedlings." M-149 Biological Sciences Centre.  
2 April, 4 p.m. Heather Addy, "Germination, CO<sub>2</sub> Gas Exchange and Temperature Resistance of *Poa Alpina* and *Trisetum Spicatum*. M-149 Biological Sciences Centre.

## Genetics

26 March, 4 p.m. J. Gordin Kaplan, "The Role of DNA Strand Breaks in Differentiation and Proliferation of Lymphocytes." G-217 Biological Sciences Centre.

## Limnology and Fisheries Discussion Group

27 March, noon. Jackie Shaw, "Lake Sediment Phosphorus: An Important and Dynamic Component of Seasonal Phosphorus Budgets." G-217 Biological Sciences Centre.  
3 April, noon. Don Abbey, "Recruitment, Growth and Mortality of Yellow Perch in Deep Boreal Lakes During the Limnetic Phase of Their Life." G-217 Biological Sciences Centre.

## Soil Science

27 March, 12:30 p.m. S. Lutwick, MSc candidate, "Effects of Long-Term Cultivation on Soil Physical and Chemical Properties." 281 CAB.  
3 April, 12:30 p.m. E. Solberg, MSc candidate, "Oxidation of Elemental Sulphur Fertilizers in Alberta." 281 CAB.

## Electrical Engineering

27 March, 3 p.m. M.C. Richardson, Laboratory for Laser Energetics, University of Rochester, "High Yield and High Density Ablatively Driven Fusion Experiments." V-102 V-Wing.  
4 April, 3 p.m. D. Attwood, Director, Center for X-ray Optics, University of California, Lawrence Berkeley Laboratory, "Soft X-ray Microscopy and Coherent Radiation—Applications to Science and Technology." V-103 V-Wing.

## Education

2 April, 2 p.m. C.W. Bowers, Division of Educational Policy and Management, College of Education, University of Oregon, "The Need for a Linguistic Turn in the Education of Teachers." 116 Education South.  
3 April, 2 p.m. C.A. Bowers, "The Dialectic of Nihilism and the State: Implications for an Emancipatory Theory of Education." 116 Education South.

## Films

## Germanic Languages

26 March, 7:30 p.m. "Berline Chamissoplatz" (1980). Admission free. Arts 17.

## The Arts

## Germanic Languages

Until 28 March. Kafka-Exhibition in Rutherford South, sponsored by the Austrian Embassy.

## Ring House Gallery

Until 20 April. "A Record for Time"—an exhibition of decorated family and individual records, memorials, tokens of friendship and embroidered memorials and samplers produced in Nova Scotia prior to 1900.

## Bruce Peel Special Collections

Until 30 April. "From Impressionism to Surrealism"—European artists as represented in coffee table books and catalogues raisonnés.  
Until 30 April. "Sketches in the Canadas"—23 hand-colored lithographic plates, sumptuously produced by Coke Smyth in 1842. This rare portfolio is the most sought after volume of plates published on Canada. B-7 Rutherford South.

## Courtyard Concert Series

All concerts are held on the Fourth Level East Atrium, Mackenzie Health Sciences Centre.

20 March, noon. Lisa Nelson, flute/piano.  
21 March, noon. David Rhein, viola/piano.  
27 March, noon. David Granger Brown, classical guitar.  
3 April, noon. Roberta Van Huizen, piano solo.

## SUB Theatre

20 March, 7:30 p.m. Richard Horrow, Chairman of the American Bar Association Task Force on Sports Violence, "Violence in Sports"—featuring film footage of brutal scenes from professional sports.  
21 March, 8 p.m. "The Times of Harvey Milk" (1984).  
22 March, 8 p.m. "Sweet Dreams" (1985).  
23 March, 8 p.m. "Amadeus" (1984).  
25 March, 7:30 p.m. James R. Petersen, Playboy Advisor, "Love and Sex."  
26 March, 8 p.m. 1986 University Research Prize Awards.  
27 March, 7 p.m. "The Wild Life" (1984) and "Brewster's Millions" (1985).

## Music

All events take place in Convocation Hall.

20 March, 8 p.m. Senior Student Recital—Heather Kendrick, soprano.  
21 March, 8 p.m. Academy Strings—Norman Nelson, conductor.  
\$4—adults; \$2—students/senior citizens.  
22 March, 8 p.m. Senior Student Recital—Leo Parth, piano.  
23 March, 3 p.m. University of Alberta Concert Band—Ernest Dalwood, conductor. \$4—adults; \$2—students/senior citizens.  
23 March, 8 p.m. Senior Student Recital—Lori Klingbeil, organ.  
24 March, 8 p.m. Senior Student Recital—Twylla Augustson, soprano.  
25 March, 8 p.m. Senior Student Recital—Rod Kirkpatrick, percussion.  
27 March, 8 p.m. Visiting Artist Series—Lubomyr Melnyk, piano.  
29 March, 8 p.m. Senior Student Recital—Shauna Still, soprano.  
2 April, 8 p.m. Senior Student Recital—Richard Chung, tenor.

## Edmonton Film Society

24 March, 8 p.m. "And The Ship Sails On" (Italy). TL-11 Tory Lecture Theatre.

## Studio Theatre

27 March to 5 April. "Gramsci x3." 432-2495.

## Broadcasts

## Radio

CKUA radio 580 AM and 94.9 FM.  
22 March, 7 p.m. "University Concert Hall."  
29 March, 7 p.m. "University Concert Hall."

## Positions

*The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.*

*In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.*

## Academic

### ESL Positions in N.E. China

The Black Dragon River Consortium in conjunction with the International Briefing Centre is hiring two English as a Second Language/English as a Foreign Language teachers to work in China's Heilongjiang Province. Contracts are for 12 months to begin mid-August 1986.

Candidates should have: MA or MED in EFL/ESL or Applied Linguistics, five years EFL/ESL experience with previous experience in a developing country and proven ability to cope with living and working in a foreign culture and environment in isolation.

For further information, contact the International Briefing Centre, 234 Athabasca Hall, 432-2765.

## Non-Academic

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. These vacancies cannot be guaranteed beyond 14 March 1986.*

Clerk Typist III (Receptionist), Personnel Services and Staff Relations, (\$1,326-\$1,666)  
Clerk Steno III (Trust), Pharmacy, (\$1,326-\$1,666)  
Clerk Steno III, Pharmacy, (\$1,326-\$1,666)  
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Clerk Steno III, Dean of Science, (\$1,326-\$1,666)  
Clerk Steno III (Trust), International Briefing Centre, (\$1,326-\$1,666)  
Clerk Steno III (Term), Extension—Public Administration, (\$1,326-\$1,666)  
Medical Steno (Trust), Pediatrics, (\$1,478-\$1,888)  
Secretary, Housing and Food Services, (\$1,478-\$1,888)  
Secretary, Planning and Development, (\$1,478-\$1,888)  
Administrative Clerk, Personnel Services and Staff Relations, (\$1,478-\$1,888)  
Administrative Clerk, Art and Design, (\$1,478-\$1,888)  
Accounts Clerk, Office of the Comptroller, (\$1,478-\$1,888)  
Building Services Worker IV, Physical Plant—Building Services Division, (\$1,600-\$2,053)  
Biomedical Technician II (Trust), Physiology, (\$1,739-\$2,237)  
Administrative Assistant, Academic Review Advisory Committee, (\$1,888-\$2,437)  
Laboratory Technologist II, Provincial Laboratory, (\$2,053-\$2,661)  
Programmer Analyst II (Term), Administrative Systems, (\$2,237-\$2,905)  
Locksmith Foreman, Physical Plant—Building Trades Division, (\$2,437-\$3,176)  
Building Superintendent II, Physical Plant—Building Services Division, (\$2,437-\$3,176)  
Programmer Analyst III, Administrative Systems, \$2,661-\$3,475)

*For vacant Library positions, please contact the Library Personnel Office, Basement, Cameron Library, 432-3339.*

## Advertisements

### Accommodations available

**Sale** - Lake lot. Behind park reserve. Sunshine Bay, Wabamun. \$29,000. (604) 248-8013.

**Rent** - Available 15 August.  
-bedroom house, furnished or unfurnished, in old Strathcona. Large, panelled living room and dining room, fireplace, trees. \$825 per month on year's lease. 433-2904.

**Sale** - Grandview. Main-floor family room. Two fireplaces. Lovely, treed yard. Ask for Pat von Borstel, 436-5250, Spencer's. 437-6540 res.

**Sale** - 160 acres, \$25,900. Close to Long Lake. Good fishing. Pat or Chris, 436-5250, 437-6540. Spencer's.

**Sale** - City residential lots. Some ravine and adjacent park reserve. Pat or Chris, 436-5250, 437-6540. Spencer's.

**For rent** - Ravine townhome, 2,200 sq. ft., furnished, jacuzzi, sauna. Non-smokers, no pets. May-August. \$1,000/month. 481-0936.

**Sale** - Four-bedroom, semi bungalow with basement suite, flowering trees. 11159 77 Ave. Mortgage less than rent. \$84,500. 438-3484.

**Rent** - House, 8932 120 St. Family only. \$750. Call evenings 439-4207.

**Sale** - Renovators delight in this Mill Creek, two-storey. 1,200 sq. ft. Three bedrooms, many mechanical upgrades. Price: \$41,900. Robert Kully, Royal LePage, 437-7480, 437-5364.

**Sublet** - 1 July 1986-30 August 1987. Two bedrooms plus study. Well-appointed. Close to University. 479-2775.

**Wildland for sale** - 80 acres, mixed woodland preserve, adjoining Elk Island Park; lake, creek, beaver, moose, deer, many birds; listen to owls, coyotes year-round, elk bugling. 7649 evenings, weekends. Executive, four-bedroom, two-storey. Attached, double garage.

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**Rent** - Newer, furnished, three-bedroom, bi-level. Sundeck, garage. 81 Ave. 110 St. 1 May-1 Sept. 998-3988.

**Rent** - North Windsor Park. Two-bedroom bungalow, study. Unfurnished/partly furnished. 1 June 1986-31 August 1987. \$700. 432-4301.

**Sale** - Parkallen. Two, fine homes. Spacious, 1,300 sq. ft., upgraded kitchen. Good basement development. \$81,900. Quiet street, extended kitchen, patio doors. Off den deck. \$74,900. Call Joyce Byrne, 435-6064, 436-5250. Spencer's.

Anyone for golf? Windermere share. \$1,200. Joe Newhouse, 432-6293 or 435-2447.

**Rent** - Three-bedroom bungalow, Petrolia. Partly furnished. 1 July 1986-31 August 1987. \$650. 434-9635 evenings.

**For rent or sale** - Saskatchewan Drive, three bedrooms. 428-0560, 439-3833.

**For sale** - Riverbend. Large, three-bedroom bungalow. Cathedral ceilings, jacuzzi. Three weeks from completion. June Sass, Royal LePage, 437-7480, 437-5712.

**For rent** - Two-bedroom, Garneau condo. 1 1/2 baths, heated parking. \$695. 455-0079.

### Accommodations wanted

Responsible couple will house-sit for approximately one month this summer. We don't smoke, we love small animals, we are amateur gardeners. References provided. 432-0690.

Wanted to rent 3-4 bedroom home in Aspen Gardens or Grandview, after 1 April. 433-5664 after 5 p.m.

Summer visiting professor seeks furnished house for family (three children). July/August 1986. Contact Louise Edwards, Department of Economics, 432-4417.

Psychology professor requires house for approximately one year period from 1 August 1986. Phone (306) 343-0645 after 6 p.m.

### Automobiles and others

1986 Pontiac 6,000. 11,000 km. \$12,000. 439-9310.

### Goods for sale

Cash paid for used appliances. 432-0272. Good selection of new and used typewriters from \$99. Mark 9, HUB Mall. 432-7936.

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# Training Courses

for University of Alberta Staff

Course	Date	Time	Course	Date	Time
<b>Supervising for Good Performance</b> <i>"What you do as supervisor has a direct impact on productivity, morale and organization. If your subordinates aren't doing their jobs you may not be doing yours."</i> <ul style="list-style-type: none"><li>• the roles and responsibilities of supervision</li><li>• how to give instructions effectively</li><li>• how to delegate and keep control</li><li>• techniques of motivation</li><li>• techniques of job design</li><li>• how to conduct a performance appraisal</li><li>• how to conduct the appraisal interview</li></ul>	June 11-12	8:30 - 3:30	<b>Writing for Results</b> <i>"Last year's most popular course. The effects are immediate and the skill is indispensable."</i> <ul style="list-style-type: none"><li>• learn to know what you want to say</li><li>• learn to know why you want to say it</li><li>• techniques for effective organization that gives your message impact</li><li>• how to reach your audience</li><li>• how to save your time and your reader's time</li><li>• how to get results</li></ul>	April 22-23 May 27-28 June 18-19	9:00 - 4:00 8:30 - 4:30 8:30 - 3:30
<b>Time Management</b> <i>"If you don't have time for this course you really need it."</i> <ul style="list-style-type: none"><li>• how to establish your priorities</li><li>• organizing your tasks through better scheduling</li><li>• deflecting interruptions</li><li>• controlling the telephone</li><li>• controlling paperwork</li></ul>	April 15 May 23 June 23	9:00 - 4:00 8:30 - 3:30 8:30 - 3:30	<b>Conducting Effective Meetings</b> <i>"Meetings are indispensable when you don't want to do anything." J.K Galbraith</i> <ul style="list-style-type: none"><li>• purposes of meetings;</li><li>• kinds of meetings</li><li>• knowing your objective</li><li>• using an agenda</li><li>• following up on action items</li><li>• how to control from the chair</li></ul>	May 5	8:30 - 3:30
<b>Problem Solving/Decision Making</b> <i>"There is nothing more frightening than ignorance in action." Goethe</i> <ul style="list-style-type: none"><li>• how to recognize a problem</li><li>• defining your goals and objectives</li><li>• dealing with technical, operational and people problems</li><li>• selecting strategies</li><li>• generating ideas: creative thinking</li></ul>	May 9 May 22	8:30 - 3:30 8:30 - 3:30	<b>Communication for Supervisors</b> <i>"Except for quoting clichés, communication is not something most organizations want to get involved in."</i> <ul style="list-style-type: none"><li>• learn what communication is</li><li>• overcome the barriers to communication</li><li>• techniques for instruction, feedback and criticism</li><li>• techniques for resolving conflicts</li><li>• dealing with individuals and groups</li></ul>	May 13-14	8:30 - 3:30
<b>Correcting Performance Through Positive Discipline</b> <i>"For supervisors, managers, APO's and anyone responsible for people."</i> <ul style="list-style-type: none"><li>• How to work effectively with the NASA/Board agreement (bring your copy)</li><li>• elements of positive discipline including legalities of documentation, formal and informal</li><li>• participants will work through several case studies</li></ul>	March 26 April 24 May 29 June 16	9:00 - 4:00 9:00 - 4:00 8:30 - 3:30 8:30 - 3:30			

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